



National Automotive Center

2001 Tactical Wheeled Vehicles Conference

Mr. Dennis Wend
Director, NAC



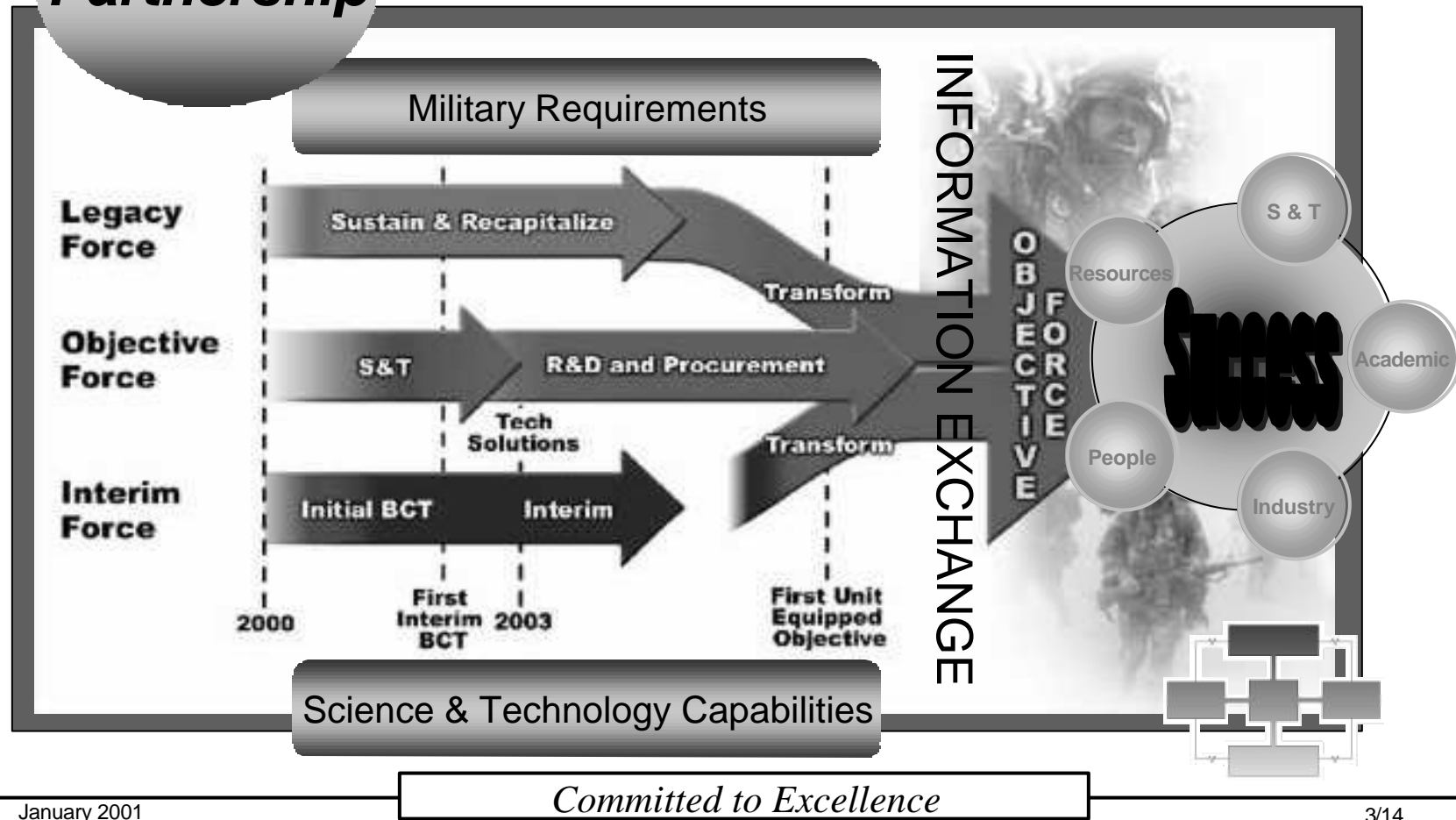
Outline

- Dual Use Needs Focus
- Collaborative Design Environment
- Windchill Applications
- Technology Transfer
- FTTS
- 21st Century Truck Initiative



TACOM Vision

Partnership





Dual Use Focus

MILITARY

INDUSTRY

NEEDS

NEEDS

Collaborative Environment
Other Transactions
Cooperative Agreements

Common Specifications

**DUAL
USE**



PTC Collaborative Technology DUS&T



State-of-Art Visualization Web-based Information





Key Enabling Technologies being developed to...

- Link People-Information

- Web based Information Technology - Windchill
- Immersive Virtual Environments - CAVE
- Soldier, LAR, WSM, Engineer, OEM, etc...



Tailoring Technologies to connect
people and information

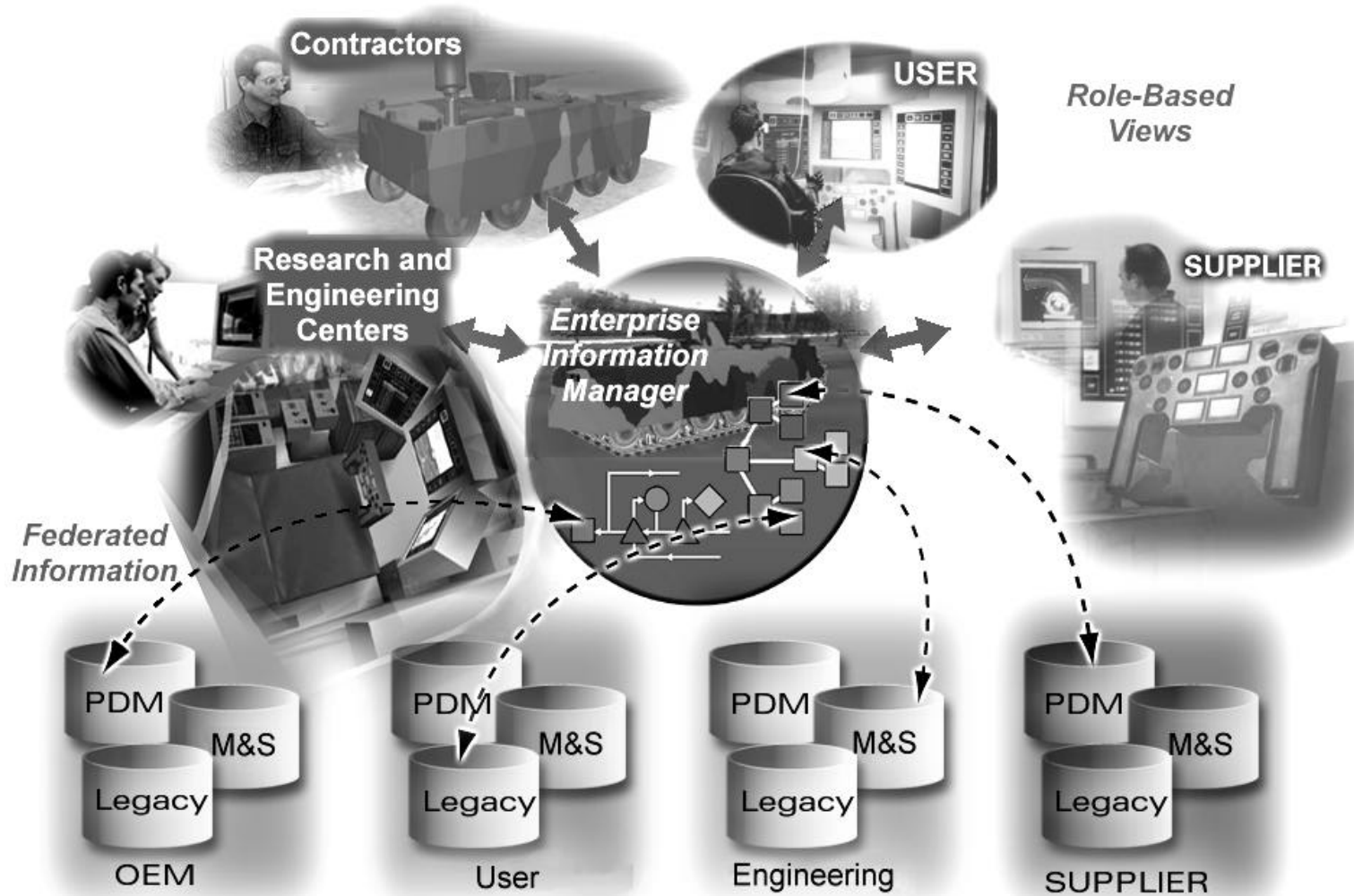
- Link Information-Processes

- TDPs
- IETMS
- Design/Engineering Models
- Commercial Technology Software



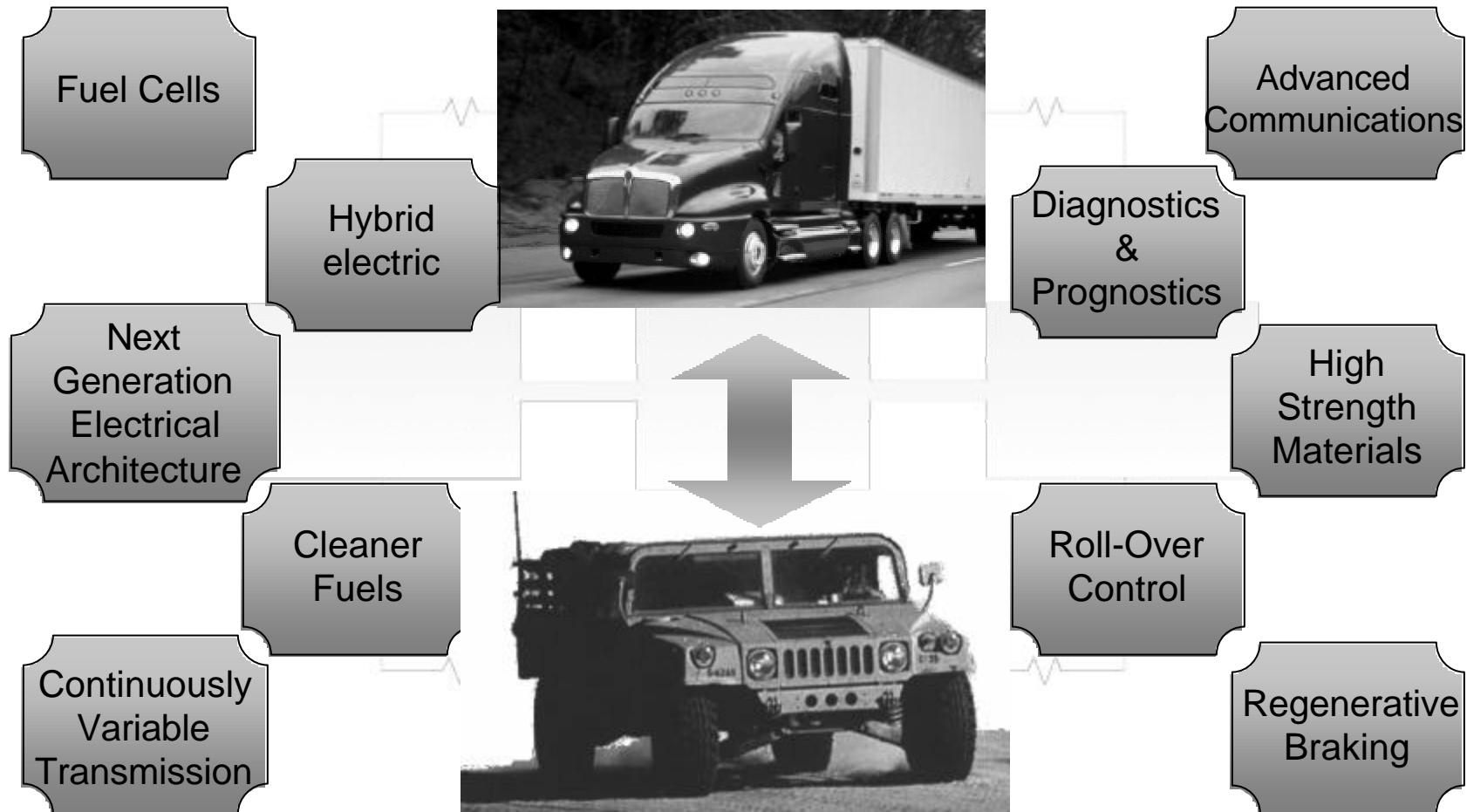


Relationships & Databases



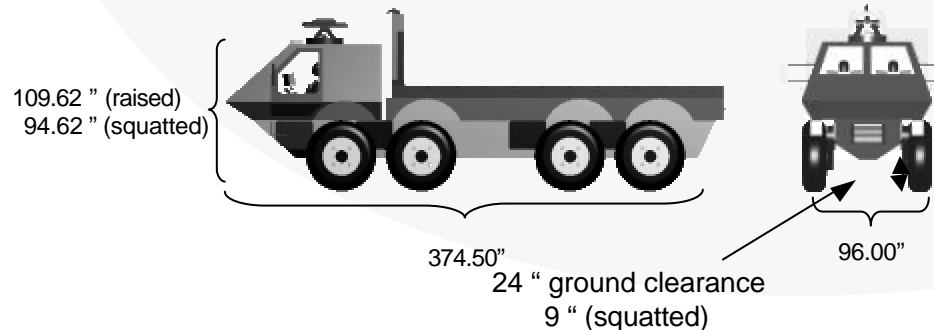
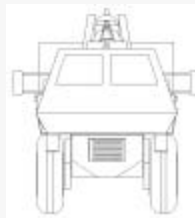
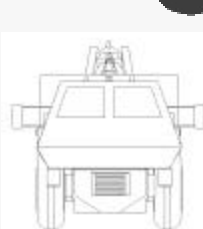
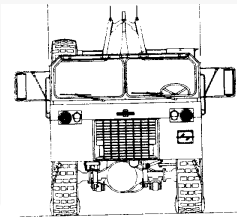
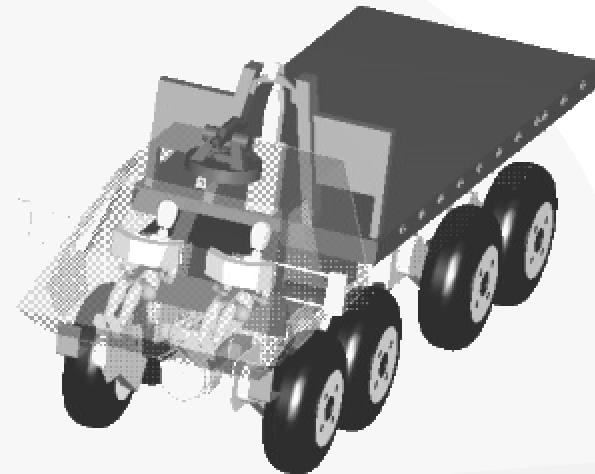
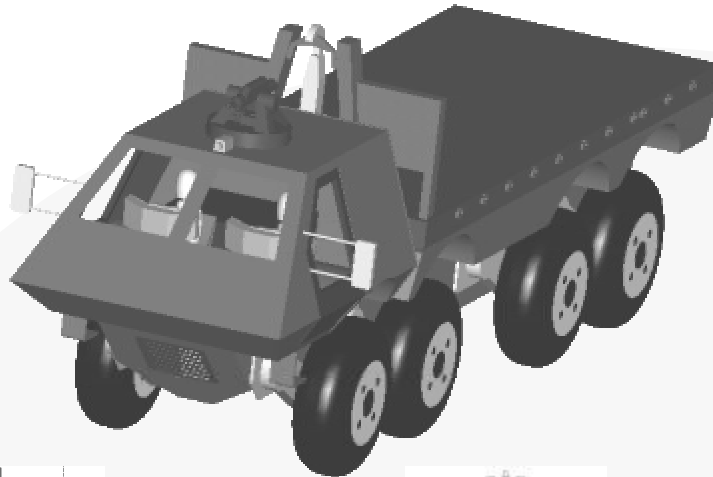


...Technology Transfer





FTTS - Concept 1 Vehicle



- Partnership with Military S & T Community
- Advancing the State-of-the-Art

Committed to Excellence



21st Century Truck Initiative

Focus Areas

**s
a
f
e
t
y**

VEHICLE
INTELLIGENCE

Advanced
Propulsion

Alternate Fuels

Advanced
Materials

Reduced
Parasitic Losses

Platforms

Class 2B



Class 6



Class 8 +



Outcomes

Fuel Economy



Increased Safety



Lower Life-Cycle Cost



Vehicle Performance



Reduced Emissions



Design Optimization



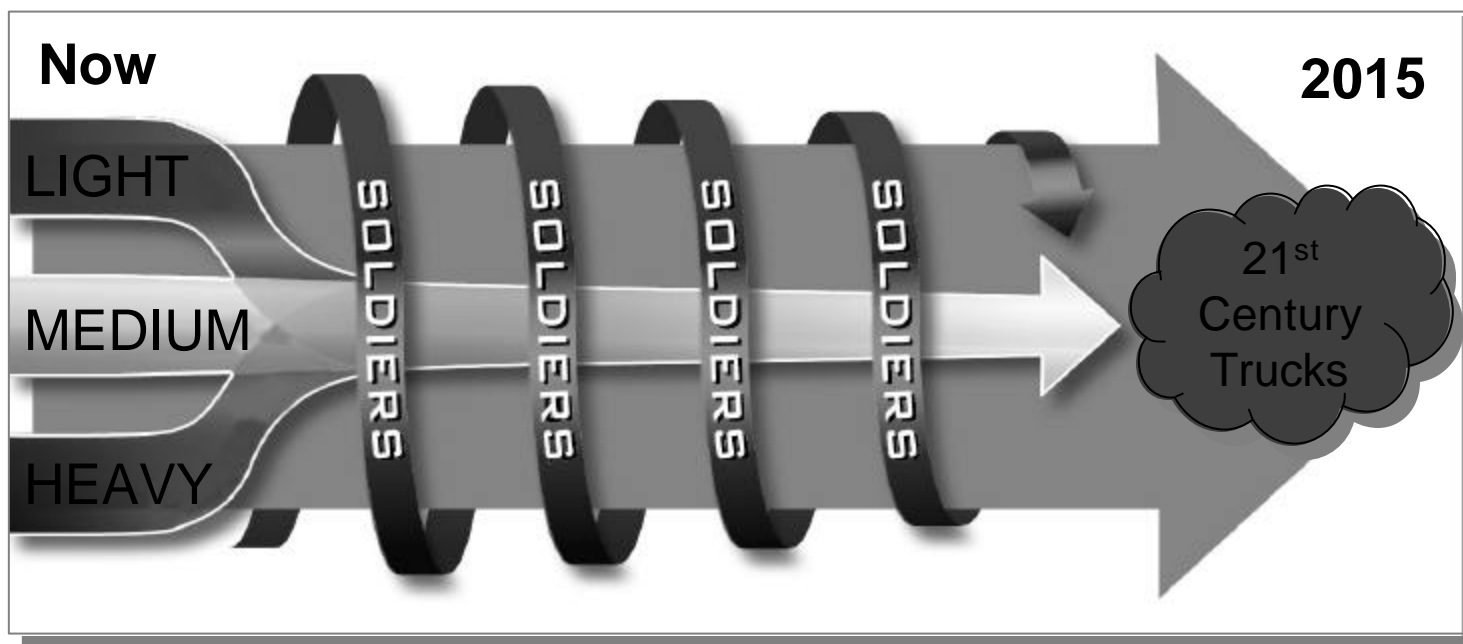
21st Century Truck Pathway to Success

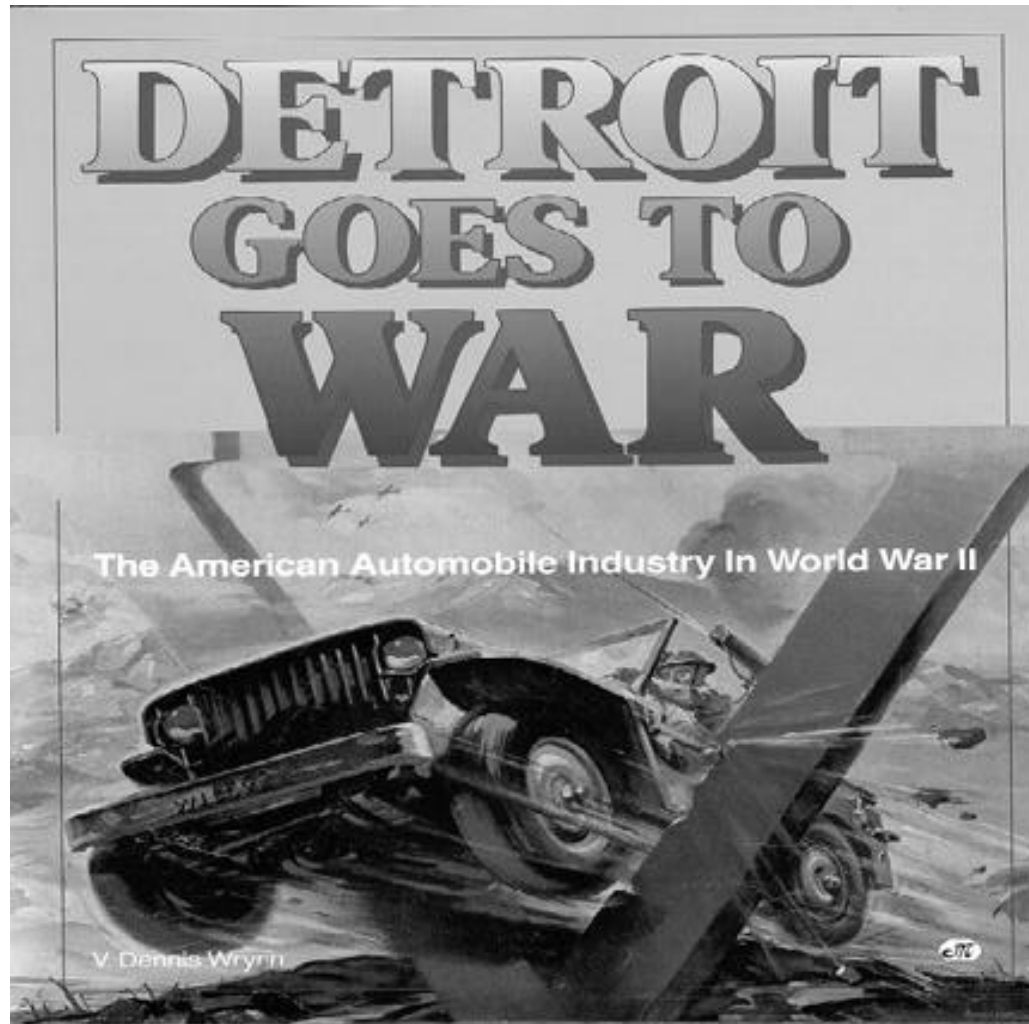
- Match military customer and commercial customer needs
- Drive research based on customer's needs and research trade-offs
- Invest in cost-shared research
- Demonstrate advanced technologies in military and commercial environments
- Feedback knowledge rapidly to all partners
- Insert technology on a continuous basis into military and commercial fleets
- Buy next-generation trucks in military and commercial fleets

Advanced technologies for Real fleets



21st Century Truck Spiral Technology Infusion







<http://www.tacom.army.mil/tardec/nac/>


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National Automotive Center

U.S. Army Tank-automotive & Armament Command




Focusing on dual-use technology research and development projects for military ground vehicles


About the NAC

Major Programs


Working Together




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21st Century Truck



Simulation Thru the Life Cycle



COMBATT



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Questions or Comments about the NAC? Send email to: nac@tacom.army.mil